

## SEQUENCE LISTING

<110> Cook, James W.  
Bulawa, Christine

<120> ASPERGILLUS N-MYRISTOYL TRANSFERASE GENES AND POLYPEPTIDES  
AND USES THEREOF

<130> 07334/089001

<140> US 09/163,444

<141> 1998-09-30

<160> 10

<170> FastSEQ for Windows Version 3.0

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<211> 1392

<212> DNA

<213> Aspergillus fumigatus N-myristoyl

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gcc ggc atg gac aaa gac aag gcg gcg gag gca atg cgc aaa atg aac	96
Ala Gly Met Asp Lys Asp Lys Ala Ala Glu Ala Met Arg Lys Met Asn	
20 25 30	
att gcc gaa ttg ctg aca ggc ttg tca gtt tcc ggg aag aac cag aag	144
Ile Ala Glu Leu Leu Thr Gly Leu Ser Val Ser Gly Lys Asn Gln Lys	
35 40 45	
gat atg gct tcg tac aag ttt tgg caa acg cag cct gtg ccc cga ttc	192
Asp Met Ala Ser Tyr Lys Phe Trp Gln Thr Gln Pro Val Pro Arg Phe	
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gat gag acg agt acc gat act ggg ggc cct atc aag atc att gat cct	240
Asp Glu Thr Ser Thr Asp Thr Gly Gly Pro Ile Lys Ile Ile Asp Pro	
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gaa aag gtc tca aag gaa ccg gat gcg ctg ctt gaa gga ttt gaa tgg	288
Glu Lys Val Ser Lys Glu Pro Asp Ala Leu Leu Glu Gly Phe Glu Trp	
85 90 95	
gcg aca ctc gac ctg aca aac gag act gag ctg cag gag ctg tgg gat	336
Ala Thr Leu Asp Leu Thr Asn Glu Thr Glu Leu Gln Glu Leu Trp Asp	
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ttg ttg acg tat cac tac gta gag gac gac aat gcc atg ttc cgg ttc	384
Leu Leu Thr Tyr His Tyr Val Glu Asp Asp Asn Ala Met Phe Arg Phe	

115	120	125	
aga tat tcg cag tcg ttc cta cac tgg gct ctt atg tcg cct ggc tgg			432
Arg Tyr Ser Gln Ser Phe Leu His Trp Ala Leu Met Ser Pro Gly Trp			
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aaa aag gaa tgg cat gtc ggt gtc cgc gct acg aag tcg cgc aaa ctg			480
Lys Lys Glu Trp His Val Gly Val Arg Ala Thr Lys Ser Arg Lys Leu			
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gta gcg tcc att tgc ggt gtc ccg aca gag atc aat gtg cgc aat caa			528
Val Ala Ser Ile Cys Gly Val Pro Thr Glu Ile Asn Val Arg Asn Gln			
165	170	175	
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Lys Leu Lys Val Val Glu Ile Asn Phe Leu Cys Ile His Lys Lys Leu			
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Cys Tyr Leu Asn Gly Ile Tyr Gln Ala Ile Tyr Thr Ala Gly Val Val			
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225	230	235	240
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Trp Leu Lys Leu Tyr Glu Val Gly Phe Ser Pro Leu Pro Ala Gly Ser			
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Thr Lys Ala Arg Gln Ile Thr Lys Asn His Leu Pro Ser Thr Thr Ser			
260	265	270	
acc ccc ggt ctt cgc ccc atg gag ccc aaa gac att gac aca gtg cat			864
Thr Pro Gly Leu Arg Pro Met Glu Pro Lys Asp Ile Asp Thr Val His			
275	280	285	
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Asp Leu Leu Gln Arg Tyr Leu Ser Arg Phe Ala Leu Asn Gln Ala Phe			
290	295	300	
acg cga gag gaa gtg gac cat tgg ctc gtg cac aag ccg gag acg gtg			960
Thr Arg Glu Glu Val Asp His Trp Leu Val His Lys Pro Glu Thr Val			
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aaa gag cag gtc gtc tgg gca tac gtg gta gag gac cct gaa acg cac			1008
Lys Glu Gln Val Val Trp Ala Tyr Val Val Glu Asp Pro Glu Thr His			
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aag atc acc gac ttc ttt tcc ttc tac aac ctc gaa tcc acc gtc att			1056
Lys Ile Thr Asp Phe Phe Ser Phe Tyr Asn Leu Glu Ser Thr Val Ile			
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 370 375 380

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 Leu Leu Met Leu Met Asn Asp Ala Leu Ile Leu Ala Lys Lys Ala His  
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 Tyr Asn Tyr Arg Thr Ala Pro Val Pro Gly Gly Val Asn Glu Lys Asn  
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ctg ccg gat gag aaa aga atg gga ggc gtt ggc atc gtt atg ctg 1389  
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<213> *Aspergillus fumigatus* N-myristoyl

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 35 40 45  
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 65 70 75 80  
 Glu Lys Val Ser Lys Glu Pro Asp Ala Leu Leu Glu Gly Phe Glu Trp  
 85 90 95  
 Ala Thr Leu Asp Leu Thr Asn Glu Thr Glu Leu Gln Glu Leu Trp Asp  
 100 105 110  
 Leu Leu Thr Tyr His Tyr Val Glu Asp Asp Asn Ala Met Phe Arg Phe  
 115 120 125  
 Arg Tyr Ser Gln Ser Phe Leu His Trp Ala Leu Met Ser Pro Gly Trp  
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Val Ala Ser Ile Cys Gly Val Pro Thr Glu Ile Asn Val Arg Asn Gln  
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 Lys Leu Lys Val Val Glu Ile Asn Phe Leu Cys Ile His Lys Lys Leu  
 180 185 190  
 Arg Ser Lys Arg Leu Thr Pro Val Leu Ile Lys Glu Ile Thr Arg Arg  
 195 200 205  
 Cys Tyr Leu Asn Gly Ile Tyr Gln Ala Ile Tyr Thr Ala Gly Val Val  
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 Leu Pro Thr Pro Val Ser Ser Cys Arg Tyr Tyr His Arg Pro Leu Asp  
 225 230 235 240  
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 Thr Lys Ala Arg Gln Ile Thr Lys Asn His Leu Pro Ser Thr Thr Ser  
 260 265 270  
 Thr Pro Gly Leu Arg Pro Met Glu Pro Lys Asp Ile Asp Thr Val His  
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 Asp Leu Leu Gln Arg Tyr Leu Ser Arg Phe Ala Leu Asn Gln Ala Phe  
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 Thr Arg Glu Glu Val Asp His Trp Leu Val His Lys Pro Glu Thr Val  
 305 310 315 320  
 Lys Glu Gln Val Val Trp Ala Tyr Val Val Glu Asp Pro Glu Thr His  
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 Lys Ile Thr Asp Phe Phe Ser Phe Tyr Asn Leu Glu Ser Thr Val Ile  
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 Gln Asn Pro Lys His Asp Asn Val Arg Ala Ala Tyr Leu Tyr Tyr Tyr  
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 Ala Thr Glu Thr Ala Phe Thr Asn Asn Met Lys Ala Leu Lys Glu Arg  
 370 375 380  
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<212> DNA

<213> *Aspergillus fumigatus* N-myristoyl

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<213> *Aspergillus fumigatus* N-myristoyl

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<213> *Aspergillus fumigatus* N-myristoyl

<400> 6

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